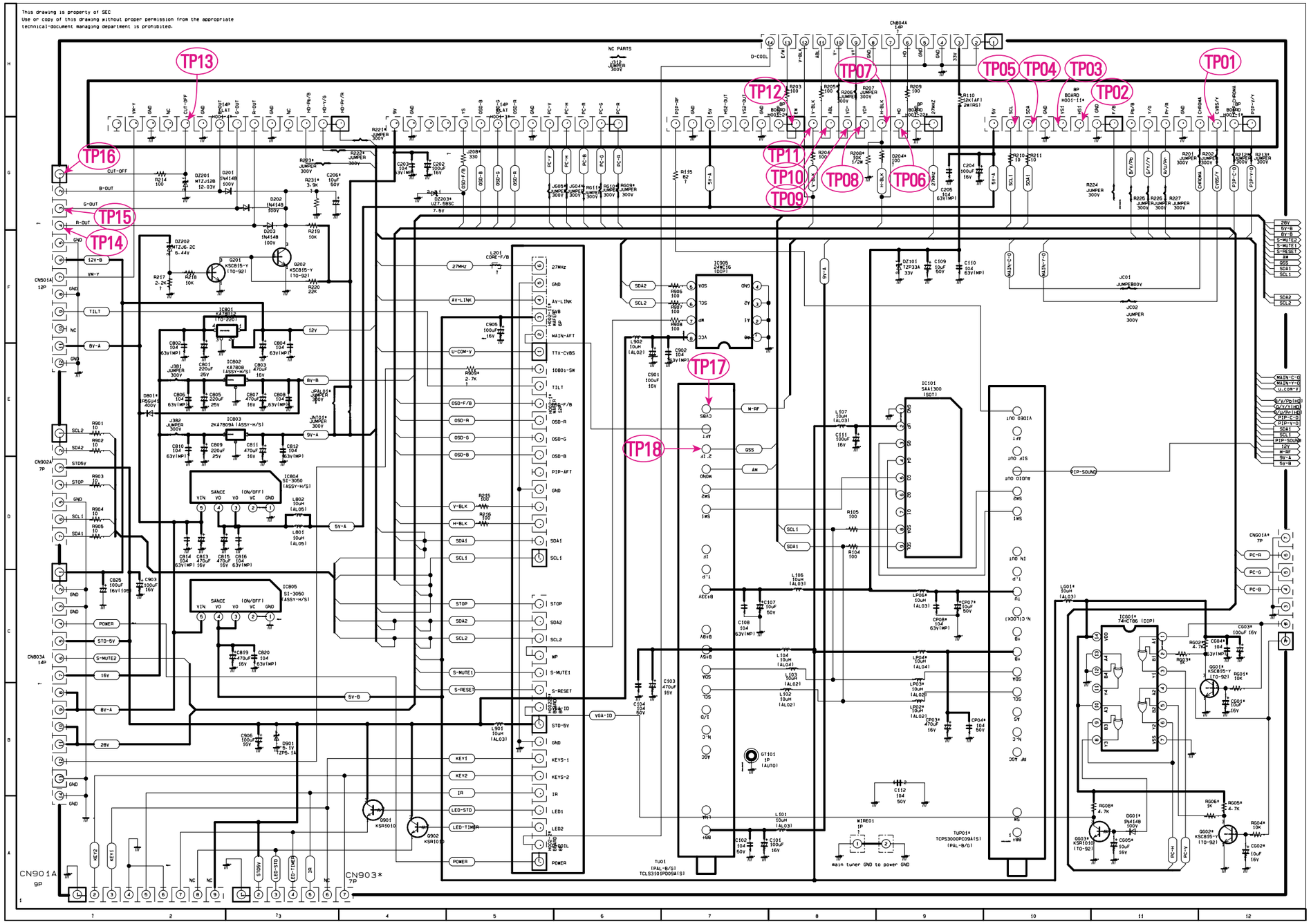
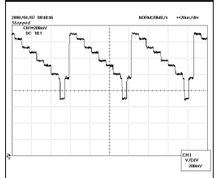
8. Schematic Diagrams

8-1 MAIN_RCA(1/3)

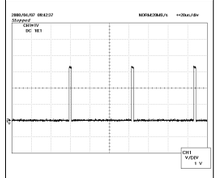


8-1-1 MAIN_RCA(1/3) WAVEFORMS

TP01



TP02



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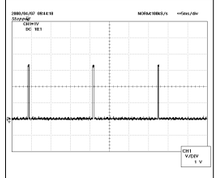

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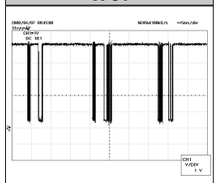

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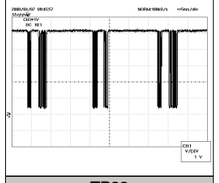

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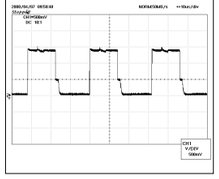

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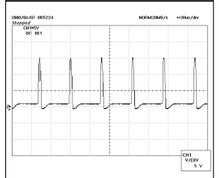

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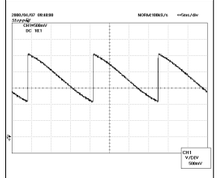

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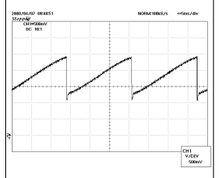

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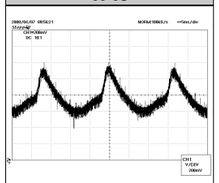
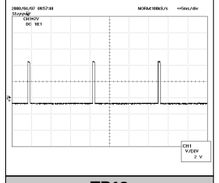


TP11



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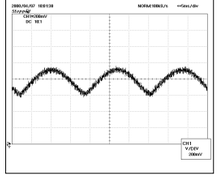
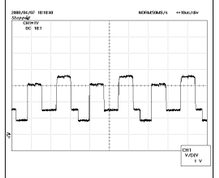


TP13

TP14



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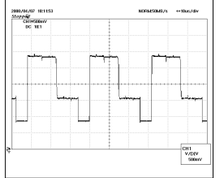

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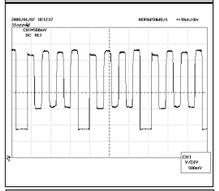

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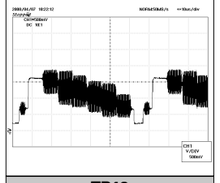

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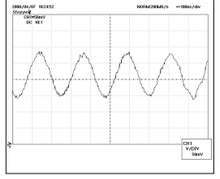
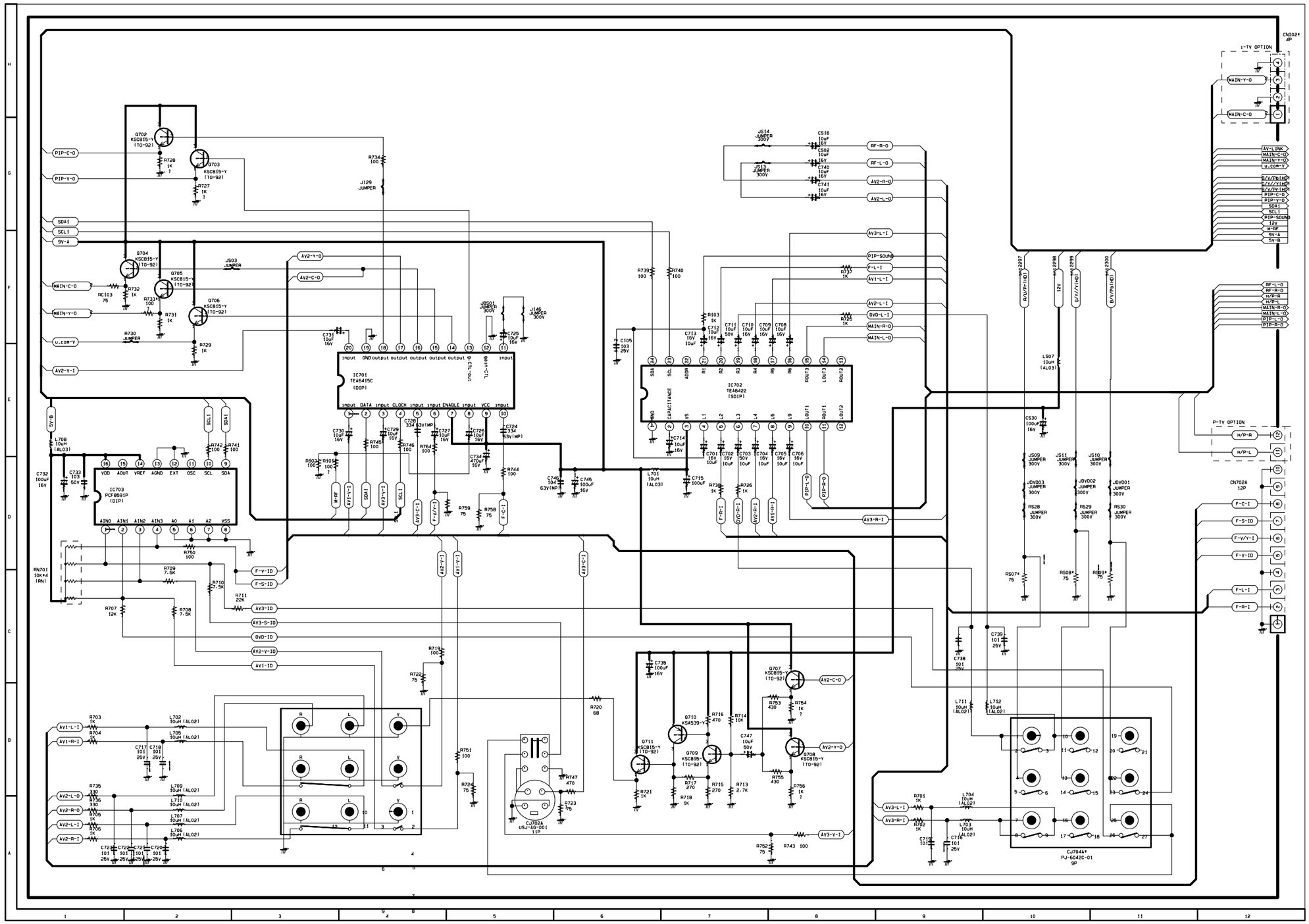


8-2 MAIN_RCA(2/3)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I-TV OPTION
MAIN-Y-O
MAIN-C-O
AV-LINK
MAIN-C-O
MAIN-Y-O
U.COM-Y
B/Y/PbIHD
G/Y/Y1HD
R/Y/PrIHD
PIP-C-O
PIP-Y-O
SDA1
SCL1
PIP-SOUND
15V
M-RF
9V-A
5V-B
P-TV OPTION
H/P-R
H/P-L
CN7024
12P
F-C-I
F-S-ID
F-Y/Y-I
F-Y-ID
F-L-I
F-R-I
CJ7044*
PJ-6042C-01
9P
PIP-C-O
PIP-Y-O
SDA1
SCL1
9V-A
MAIN-C-O
MAIN-Y-O
U.COM-Y
AV2-Y-I
AV1-R-I
AV1-L-I
AV2-R-O
AV2-L-O
AV2-L-I
AV2-R-I
AV3-L-I
AV3-R-I
5V-B
RF-R-O
RF-L-O
AV2-R-O
AV2-L-O
AV3-L-I
PIP-SOUND
F-L-I
AV1-L-I
DVD-L-I
MAIN-R-O
MAIN-L-O
AV2-Y-O
AV2-C-O
AV3-Y-I
AV3-C-I
AV2-Y-I
AV1-Y-I
F-Y-ID
F-S-ID
AV3-ID
AV3-S-ID
DVD-ID
AV2-V-ID
AV1-ID
IC701
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IC702
TE46422
(SDIP)
IC703
PCF8591P
(DIP)
CJ7024
USJ-A0-001
11P
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Q704 KSC815-Y (TO-92)
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Q706 KSC815-Y (TO-92)
Q707 KSC815-Y (TO-92)
Q708 KSC815-Y (TO-92)
Q709 KSC815-Y (TO-92)
Q710 KSA539-Y
Q711 KSC815-Y (TO-92)
RN701 10K*4 (RN)
RC103 75
J503 JUMPER
J129 JUMPER
J146 JUMPER 300V
J514 JUMPER 300V
J513 JUMPER 300V
J509 JUMPER 300V
J511 JUMPER 300V
J510 JUMPER 300V
JDV003 JUMPER 300V
JDV002 JUMPER 300V
JDV001 JUMPER 300V
RS28 JUMPER 300V
RS29 JUMPER 300V
RS30 JUMPER 300V
R730 JUMPER
SW2297 R/U/Pr-I(HD)
SW2298 I2N
SW2299 G/Y/Y1HD
SW2300 B/Y/Pb-I(HD)
L507 10uH (AL03)
L708 10uH (AL03)
L701 10uH (AL03)
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L712 10uH (AL02)
L715 100uF
L716 10uH (AL02)
L717 10uH (AL02)
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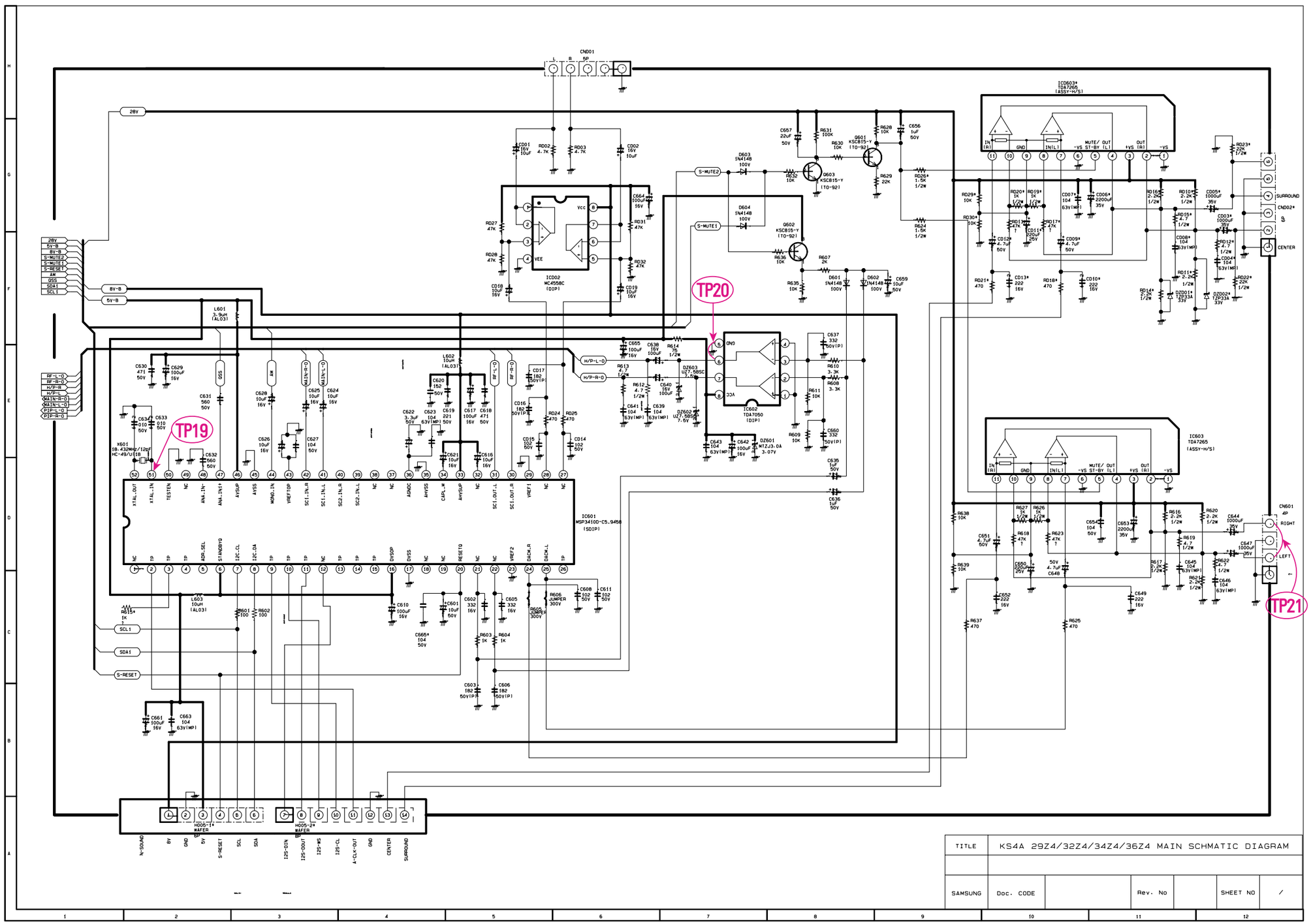
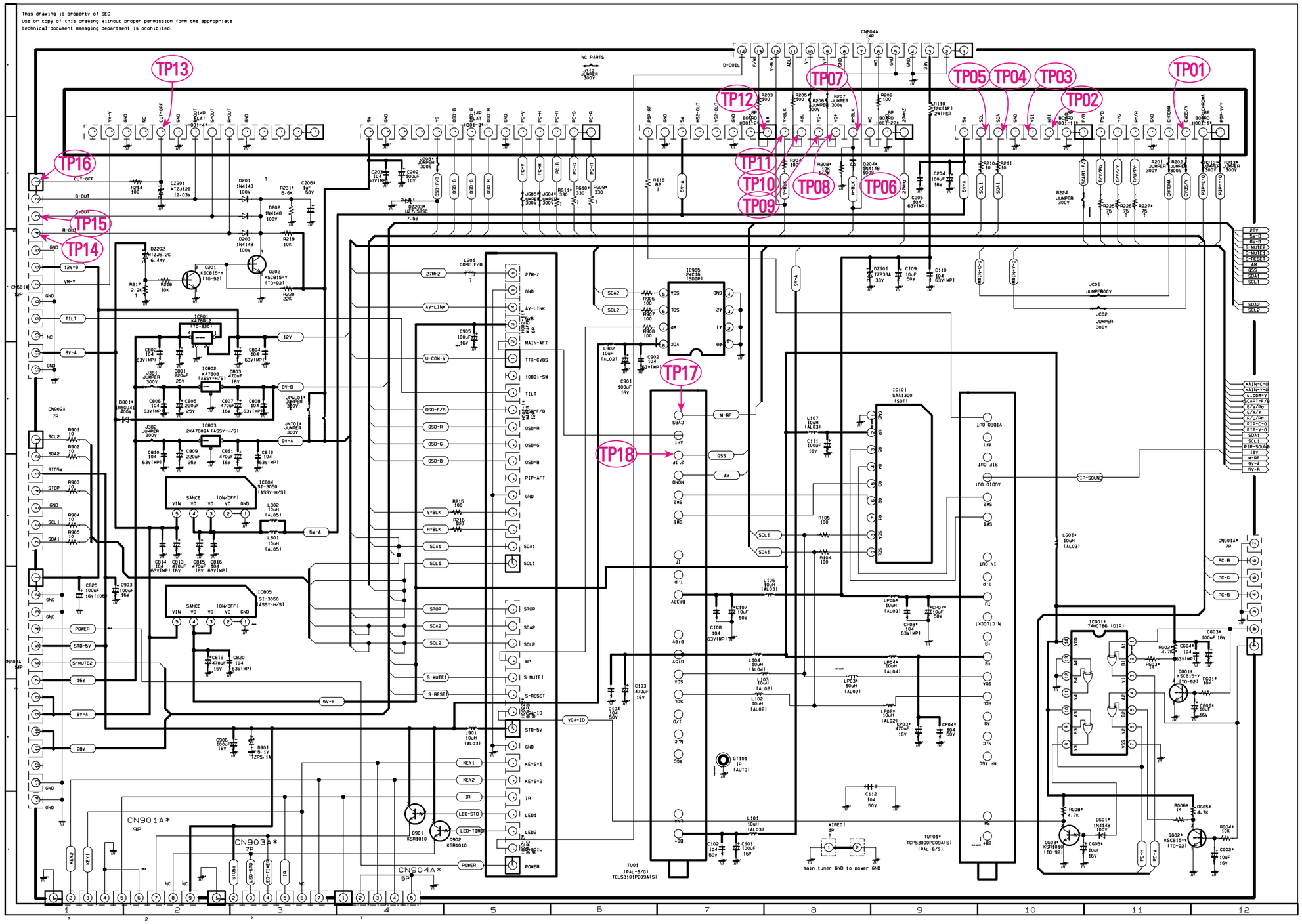
8-3 MAIN_RCA(3/3)



8-4 MAIN_SCART(1/3)



8-4-1 MAIN_SCART(1/3) WAVEFORMS

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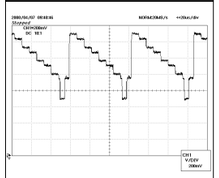
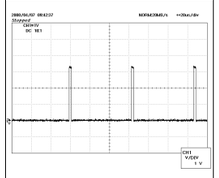


TP02



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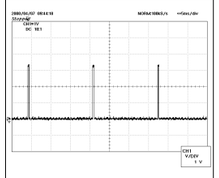
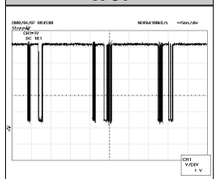


TP04



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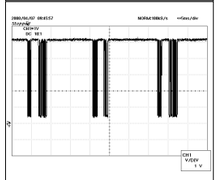
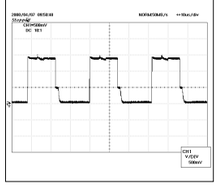
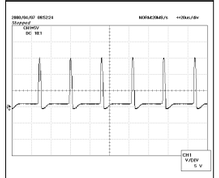


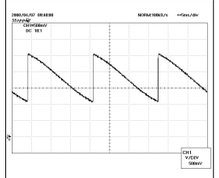
TP06



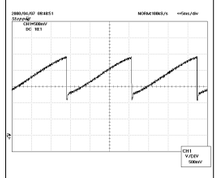
TP07



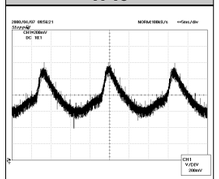
TP08



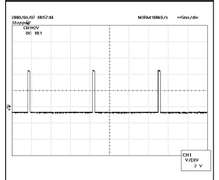
TP09



TP10



TP11



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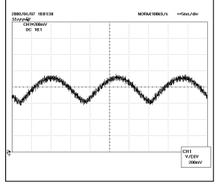
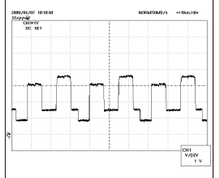
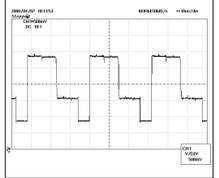


TP13

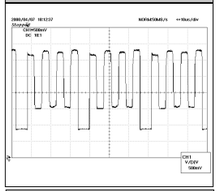
TP14



TP15



TP16



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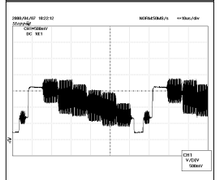

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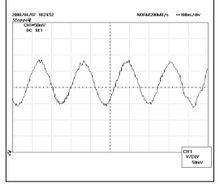
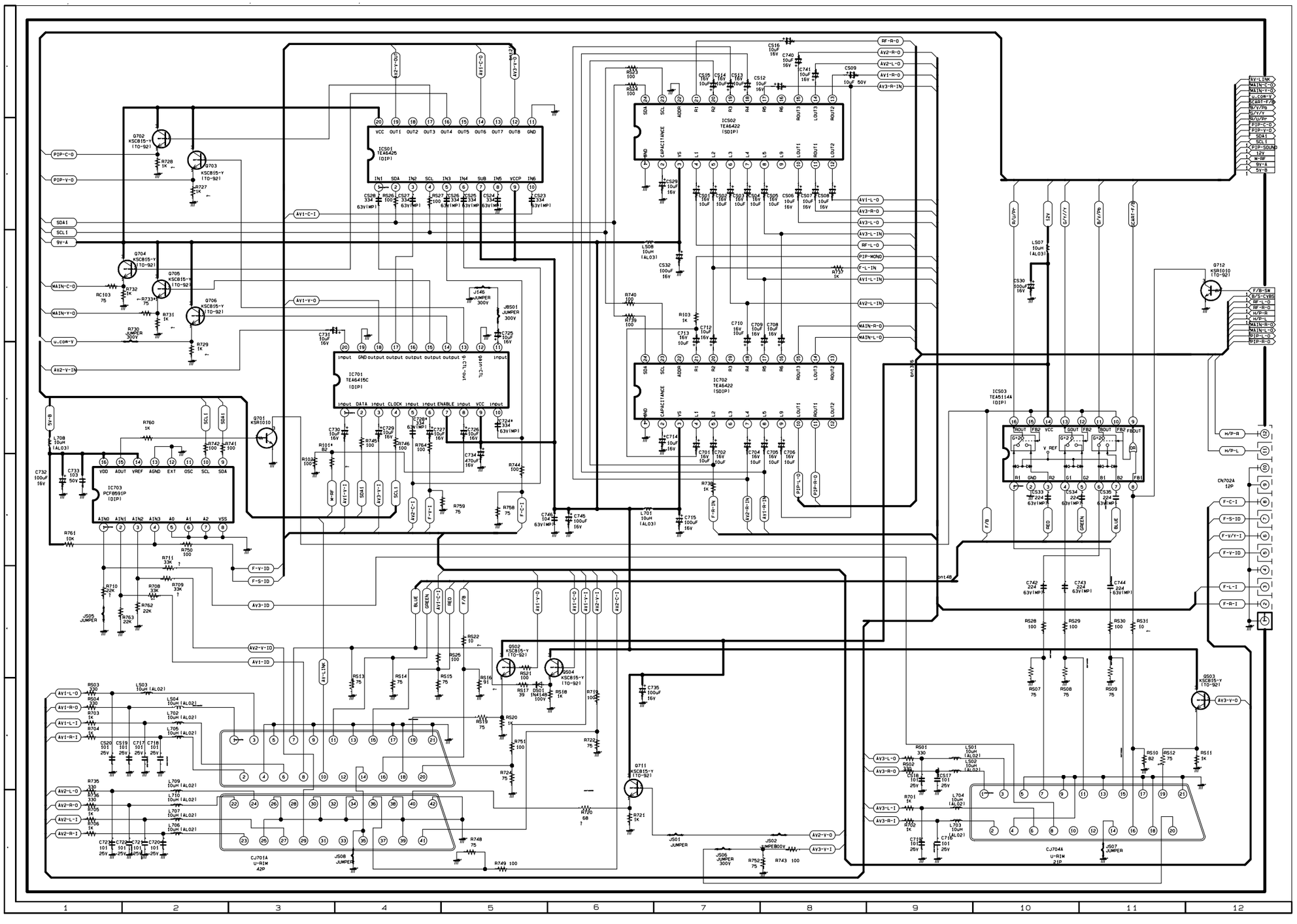
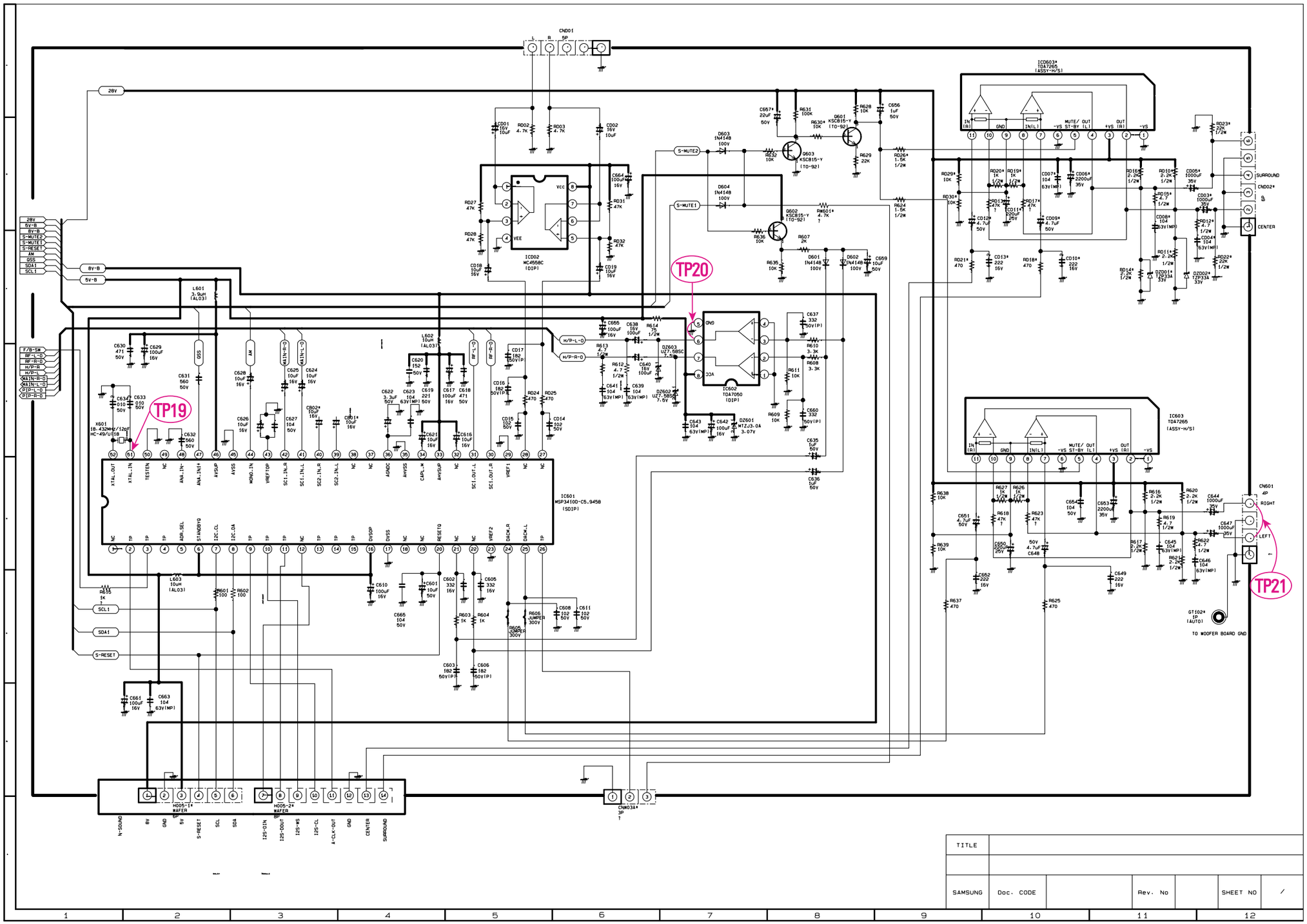
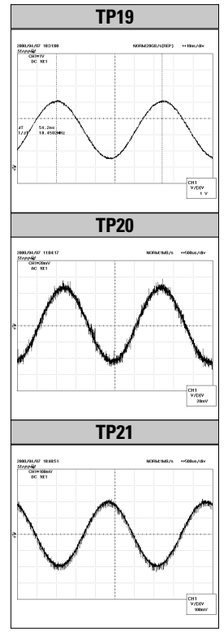


8-5 MAIN_SCART(2/3)

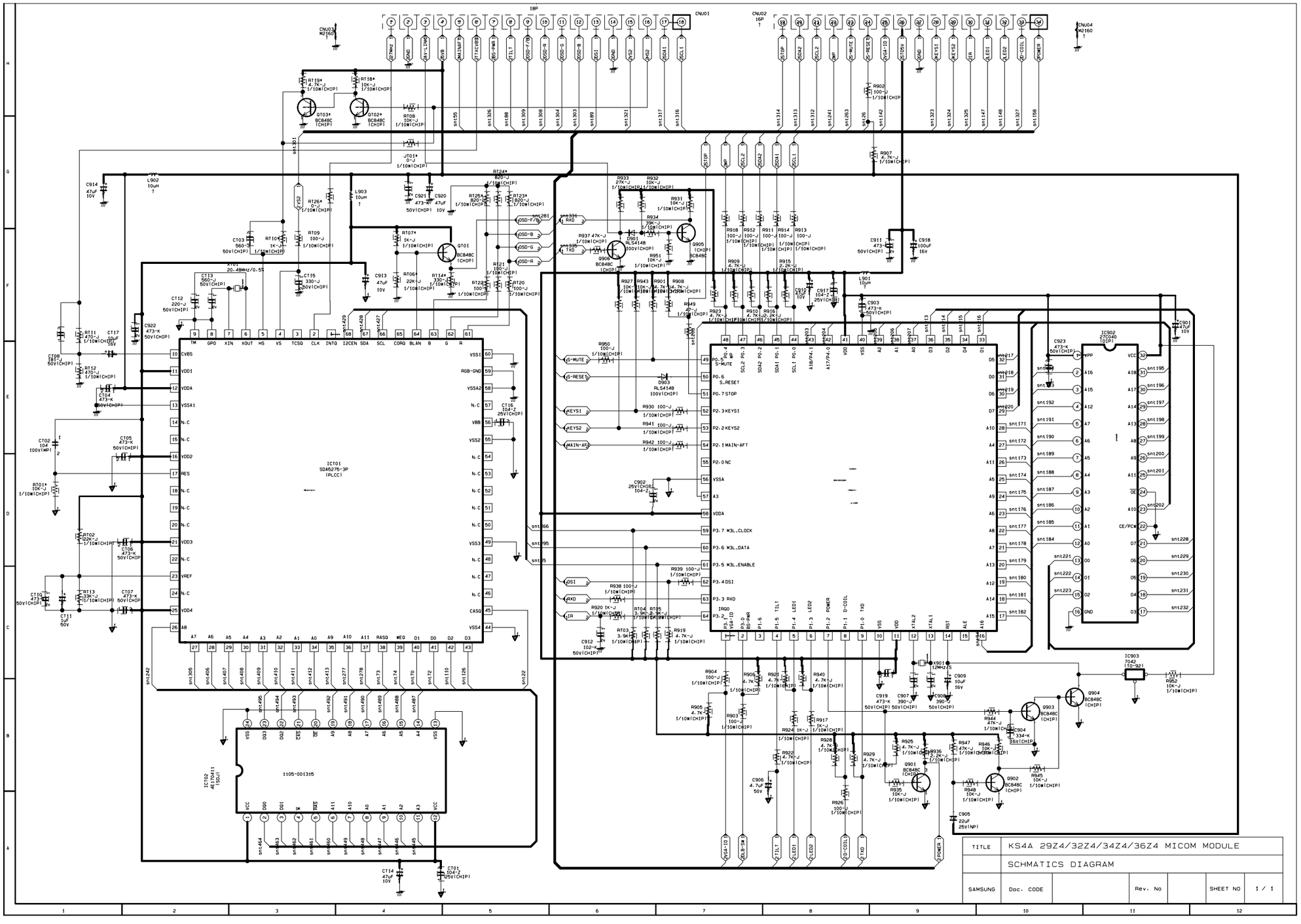


8-6 MAIN_SCART(3/3)





8-7 MICOM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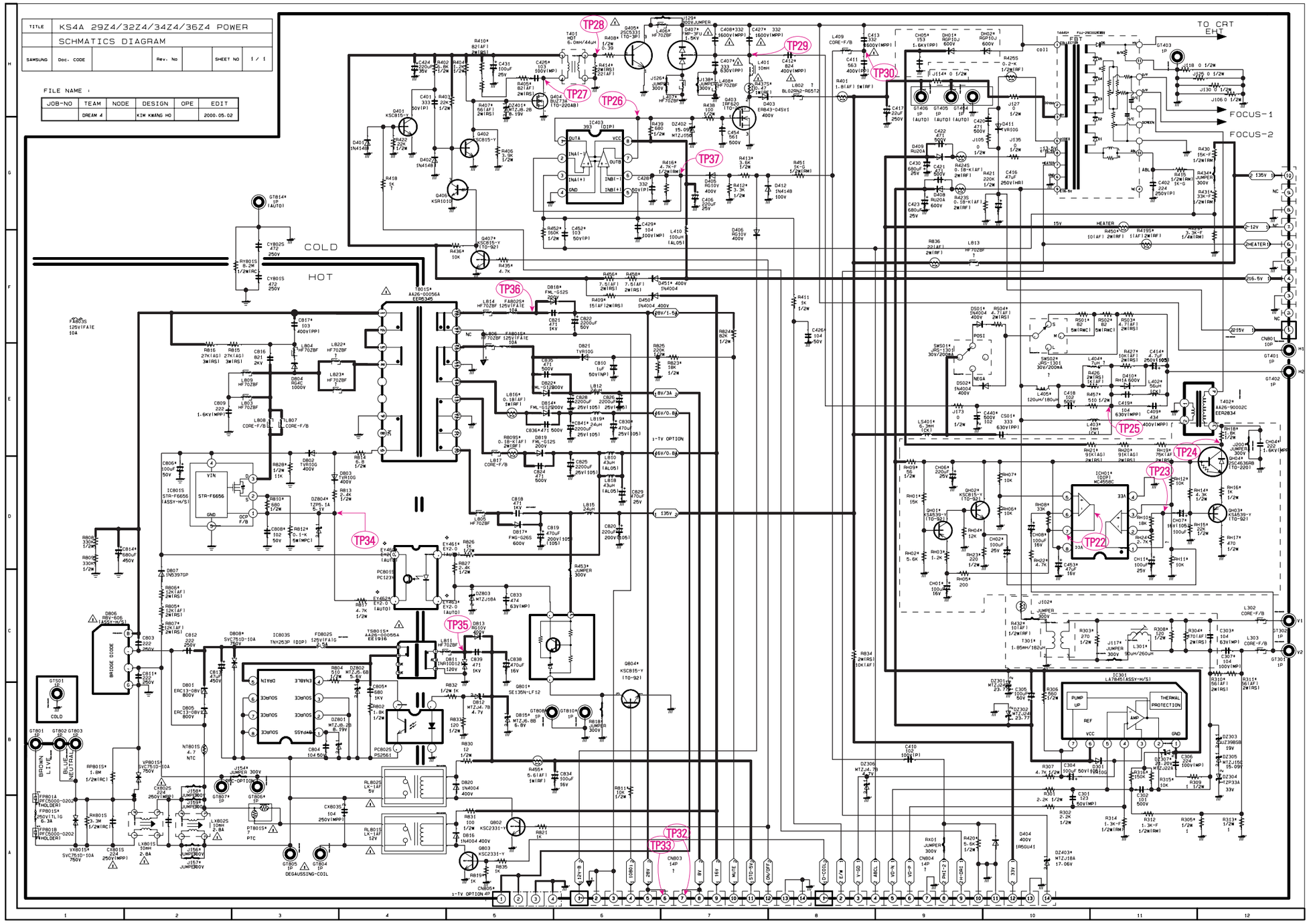
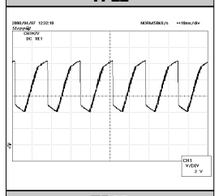
CNJ02
CNJ03
CNJ04
IC101
SDA5276-3P
(PLCC)
IC102
27C011
(DIP)
IC902
27C040
(DIP)
IC903
7042
(TO-92)
1105-001316
TITLE
KS4A 29Z4/32Z4/34Z4/36Z4 MICOM MODULE
SCHMATICS DIAGRAM
SAMSUNG
Doc. CODE
Rev. No
SHEET NO
1 / 1

8-8 POWER

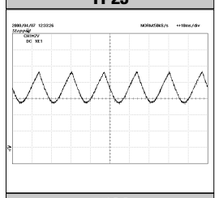

KS4A 29Z4/32Z4/34Z4/36Z4 POWER
SCHMATICS DIAGRAM
SAMSUNG
FILE NAME :
JOB-NO
TEAM
NODE
DESIGN
OPE
EDIT
DREAM 4
KIM KWANG HO
2000.05.02
COLD
HOT
TO CRT
EHT
FOCUS-1
FOCUS-2
HEATER
135V
12V
16.5V
215V
15V
TP22
TP23
TP24
TP25
TP26
TP27
TP28
TP29
TP30
TP32
TP33
TP34
TP35
TP36
TP37
BRIDGE DIODE
BROWN
BLUE
NEUTRAL
LIVE
DEGAUSSING-COIL
1-TV OPTION
3-TV OPTION
PUMP UP
THERMAL PROTECTION
REF
VCC
GND
AMP
STR-F6656
VIN
GND
OCP F/B

8-8-1 POWER WAVEFORMS

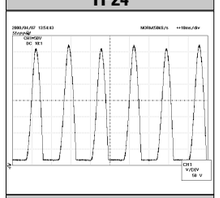
TP22



TP23

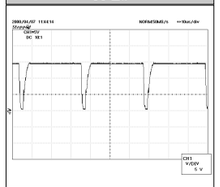


TP24

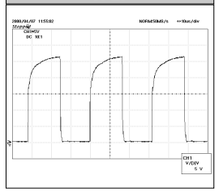


TP25

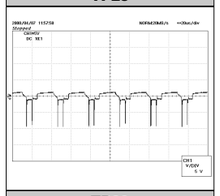
TP26



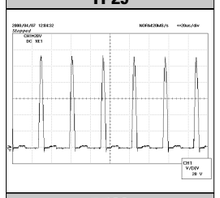
TP27



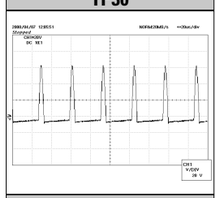
TP28



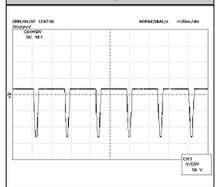
TP29



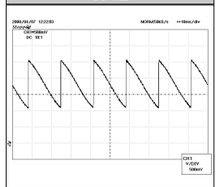
TP30



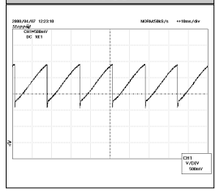
TP31



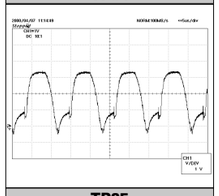
TP32



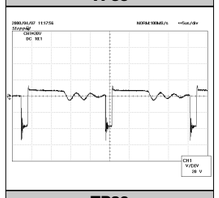
TP33



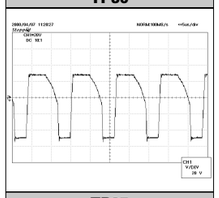
TP34



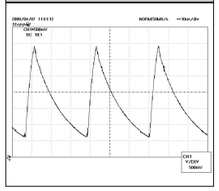
TP35



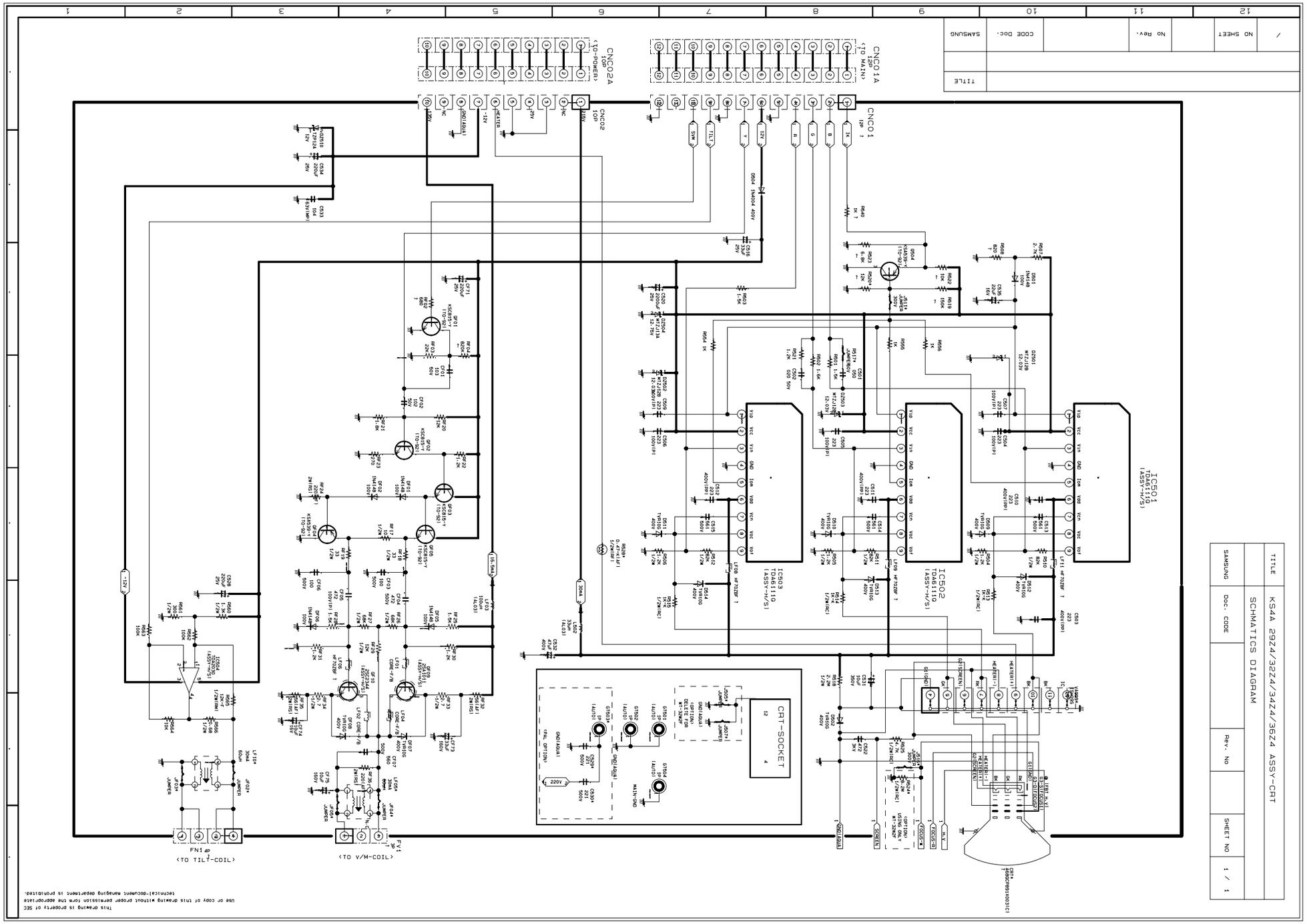
TP36



TP37



8-9 CRT


CNCO1A
CNCO1
CNCO2
CNCO2A
IC501
IC502
IC503
CRT-SOCKET
KS4A 2924/3224/3424/3624 ASSY-CRT
SCHMATICS DIAGRAM
SAMSUNG
TITLE
CODE DOC.
NO REV.
NO SHEET
<TO MAIN>
<TO-POWER>
<TO TIL-COIL>
<TO V/M-COIL>
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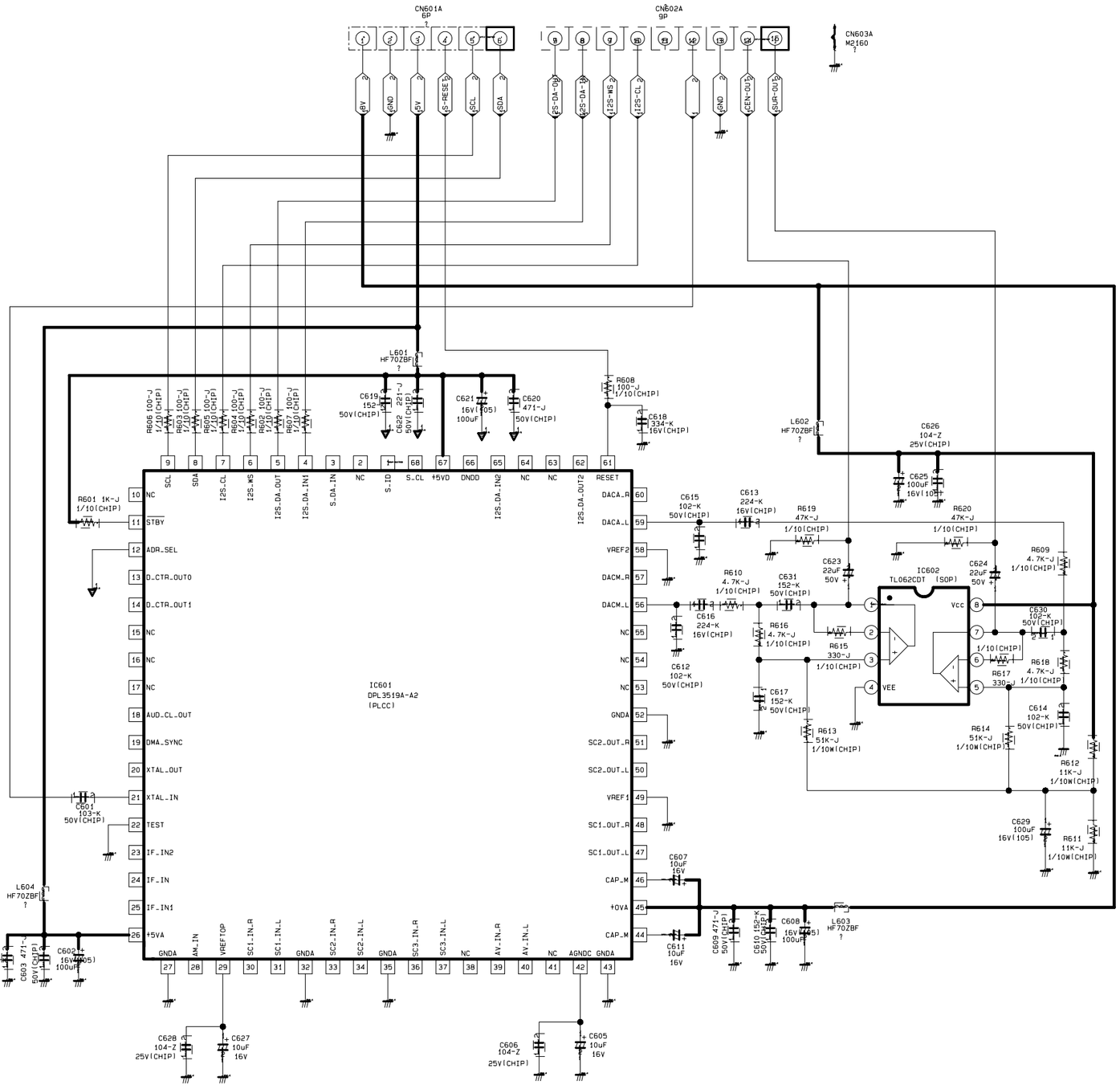
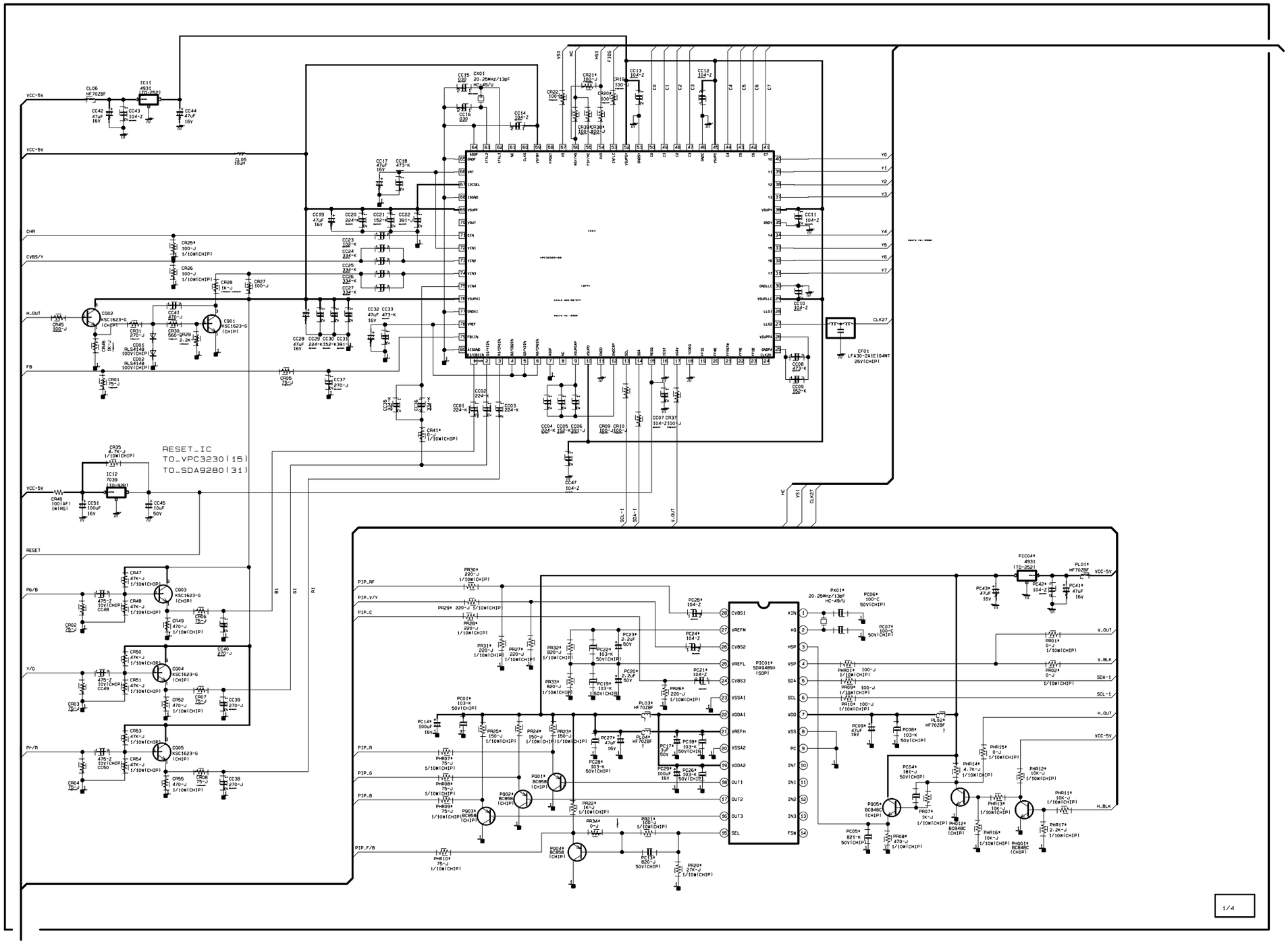
technical-documnt managing department is prohibited.

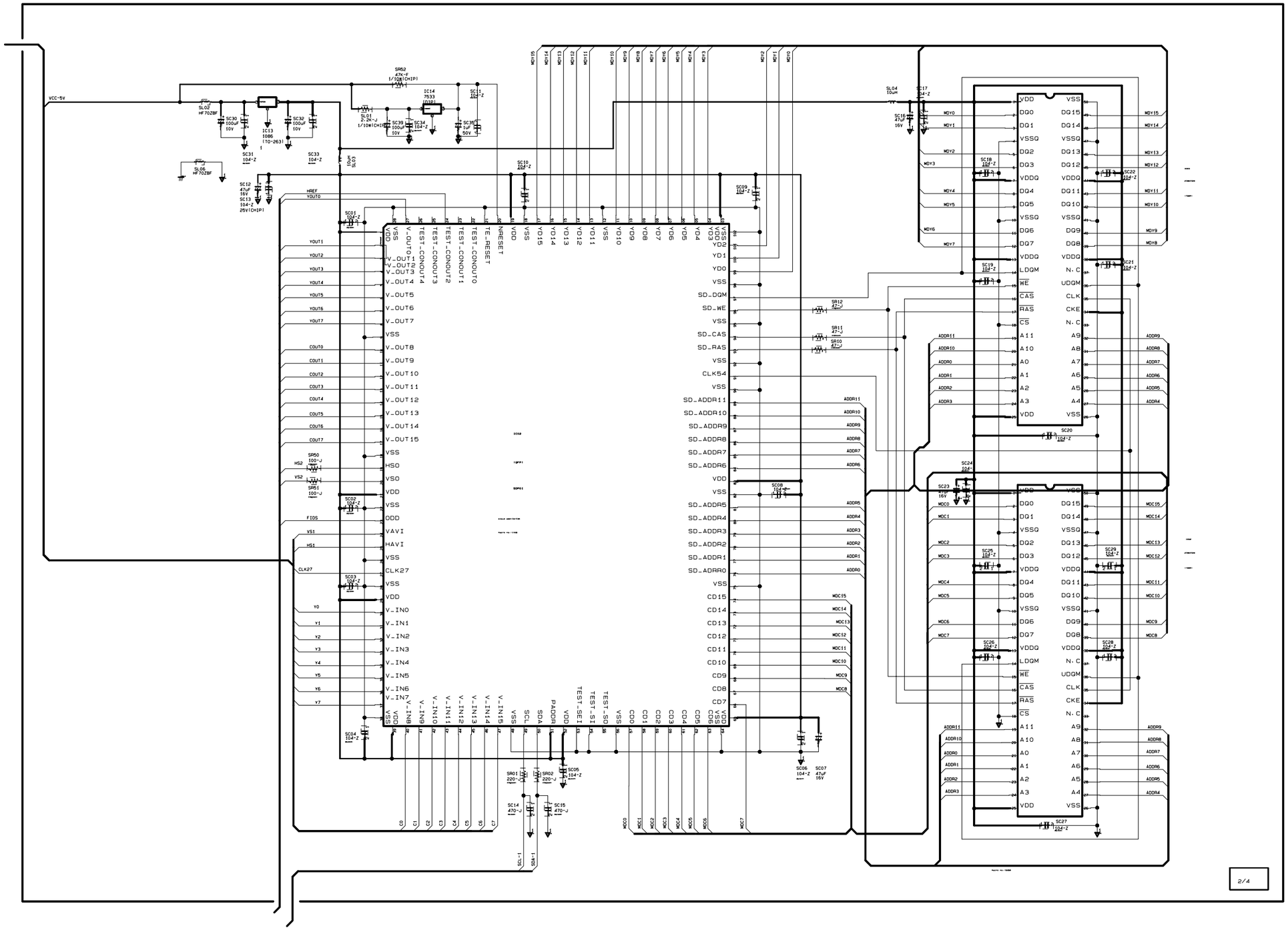
8-10 DOLBY


CN601A
6P
CN602A
9P
CN603A
M2160
+8V
GND
+5V
S-RESET
SCL
SDA
I2S-DA-OUT
I2S-DA-IN
I2S-WS
I2S-CL
GND
CEN-OUT
SUR-OUT
L601
HF70ZBF
L602
HF70ZBF
L603
HF70ZBF
L604
HF70ZBF
IC601
DPL3519A-A2
(PLCC)
IC602
TL062CDT (SOP)
SCL
SDA
I2S_CL
I2S_WS
I2S_DA_OUT
I2S_DA_IN1
S_DA_IN
NC
S_ID
S_CL
+5VD
DNDD
I2S_DA_IN2
NC
NC
I2S_DA_OUT2
RESET
NC
STBY
ADR_SEL
D_CTR_OUT0
D_CTR_OUT1
NC
NC
NC
AUD_CL_OUT
DMA_SYNC
XTAL_OUT
XTAL_IN
TEST
IF_IN2
IF_IN
IF_IN1
+5VA
DACA_R
DACA_L
VREF2
DACM_R
DACM_L
NC
NC
NC
GNDA
SC2_OUT_R
SC2_OUT_L
VREF1
SC1_OUT_R
SC1_OUT_L
CAP_M
+5VA
CAP_M
GNDA
AM_IN
VREF1OP
SC1_IN_R
SC1_IN_L
GNDA
SC2_IN_R
SC2_IN_L
GNDA
SC3_IN_R
SC3_IN_L
NC
AV_IN_R
AV_IN_L
NC
AGNDC
GNDA
Vcc
VEE
R606 100-J 1/10(CHIP)
R603 100-J 1/10(CHIP)
R604 100-J 1/10(CHIP)
R605 100-J 1/10(CHIP)
R601 1K-J 1/10(CHIP)
R602 100-J 1/10(CHIP)
R607 100-J 1/10(CHIP)
C619 152-K 50V(CHIP)
C622 221-J 50V(CHIP)
C621 16V(105) 100uF
C620 471-J 50V(CHIP)
R608 100-J 1/10(CHIP)
C618 334-K 16V(CHIP)
C626 104-Z 25V(CHIP)
C625 100uF 16V(105)
C615 102-K 50V(CHIP)
C613 224-K 16V(CHIP)
R619 47K-J 1/10(CHIP)
R620 47K-J 1/10(CHIP)
R609 4.7K-J 1/10(CHIP)
C623 22uF 50V
C624 22uF 50V
C631 152-K 50V(CHIP)
R610 4.7K-J 1/10(CHIP)
C616 224-K 16V(CHIP)
R616 4.7K-J 1/10(CHIP)
R615 330-J 1/10(CHIP)
C630 102-K 50V(CHIP)
R618 4.7K-J 1/10(CHIP)
R617 330-J 1/10(CHIP)
C612 102-K 50V(CHIP)
C617 152-K 50V(CHIP)
R613 51K-J 1/10W(CHIP)
R614 51K-J 1/10W(CHIP)
C614 102-K 50V(CHIP)
R612 11K-J 1/10W(CHIP)
C629 100uF 16V(105)
R611 11K-J 1/10W(CHIP)
C601 103-K 50V(CHIP)
C604 152-K 50V(CHIP)
C603 471-J 50V(CHIP)
C602 16V(105) 100uF
C628 104-Z 25V(CHIP)
C627 10uF 16V
C605 104-Z 25V(CHIP)
C605 10uF 16V
C607 10uF 16V
C611 10uF 16V
C609 471-J 50V(CHIP)
C610 152-K 50V(CHIP)
C608 16V(105) 100uF

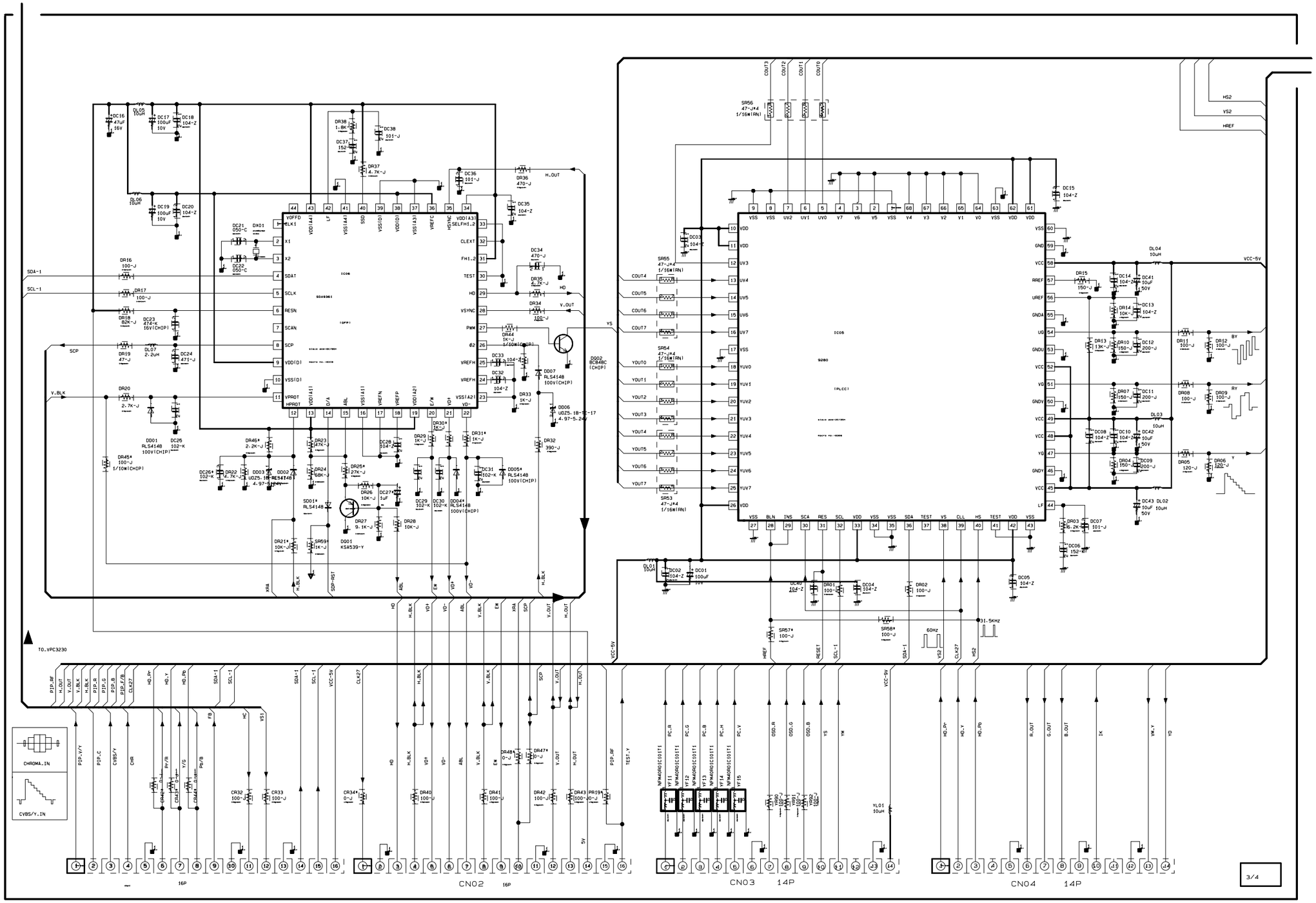
8-11 F-BOX (1/4)


VCC-5V
CHR
CVBS/Y
H.OUT
FB
Pb/B
Y/G
Pr/R
RESET
RESET_IC
TO_VPC3230(15)
TO_SDA9280(31)
PIP_RF
PIP_Y/Y
PIP_C
PIP_R
PIP_G
PIP_B
PIP_F/B
SCL-I
SDA-I
V.OUT
HC
VS1
CLK27
V.BLK
H.BLK
1/4

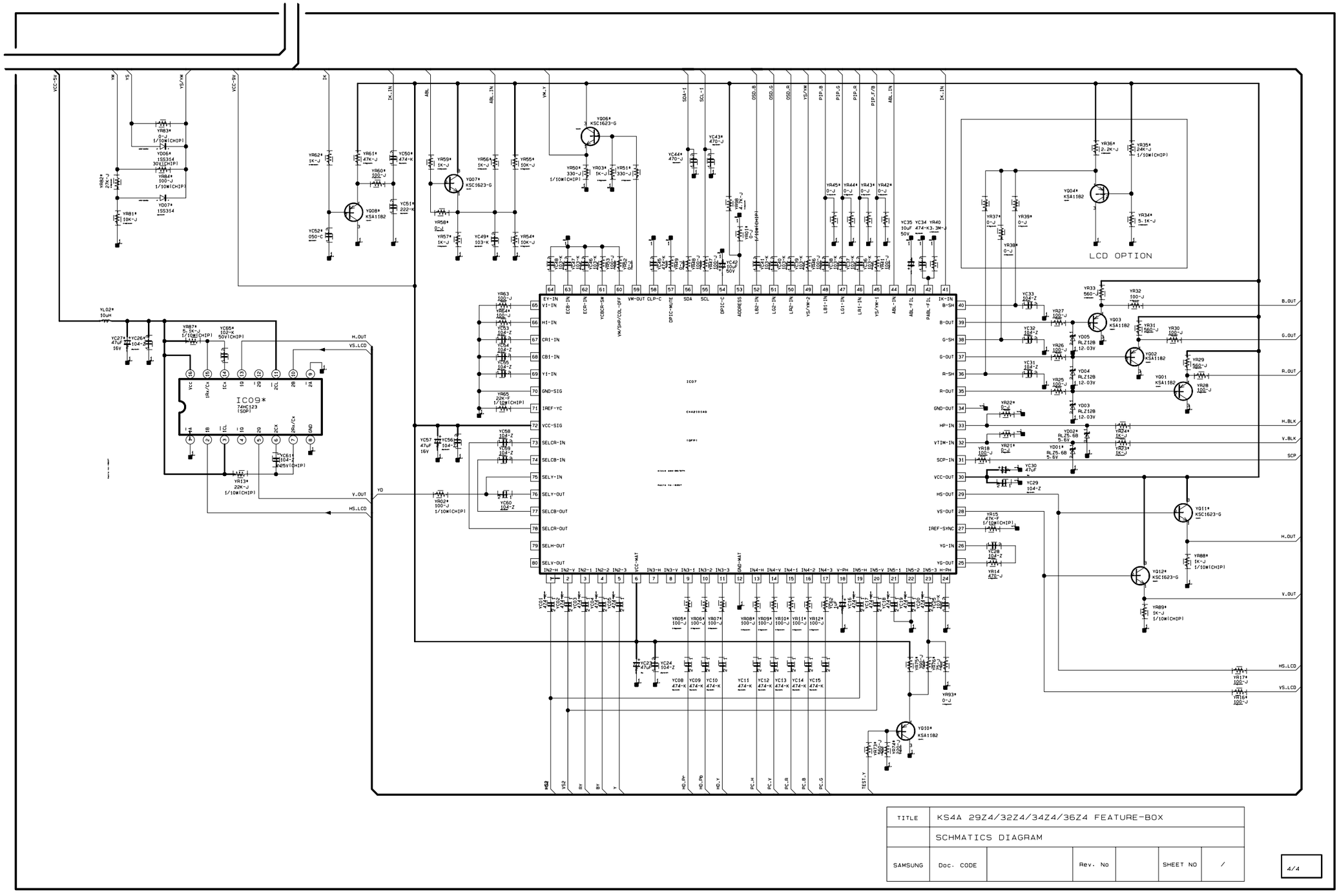
8-12 F-BOX(2/4)

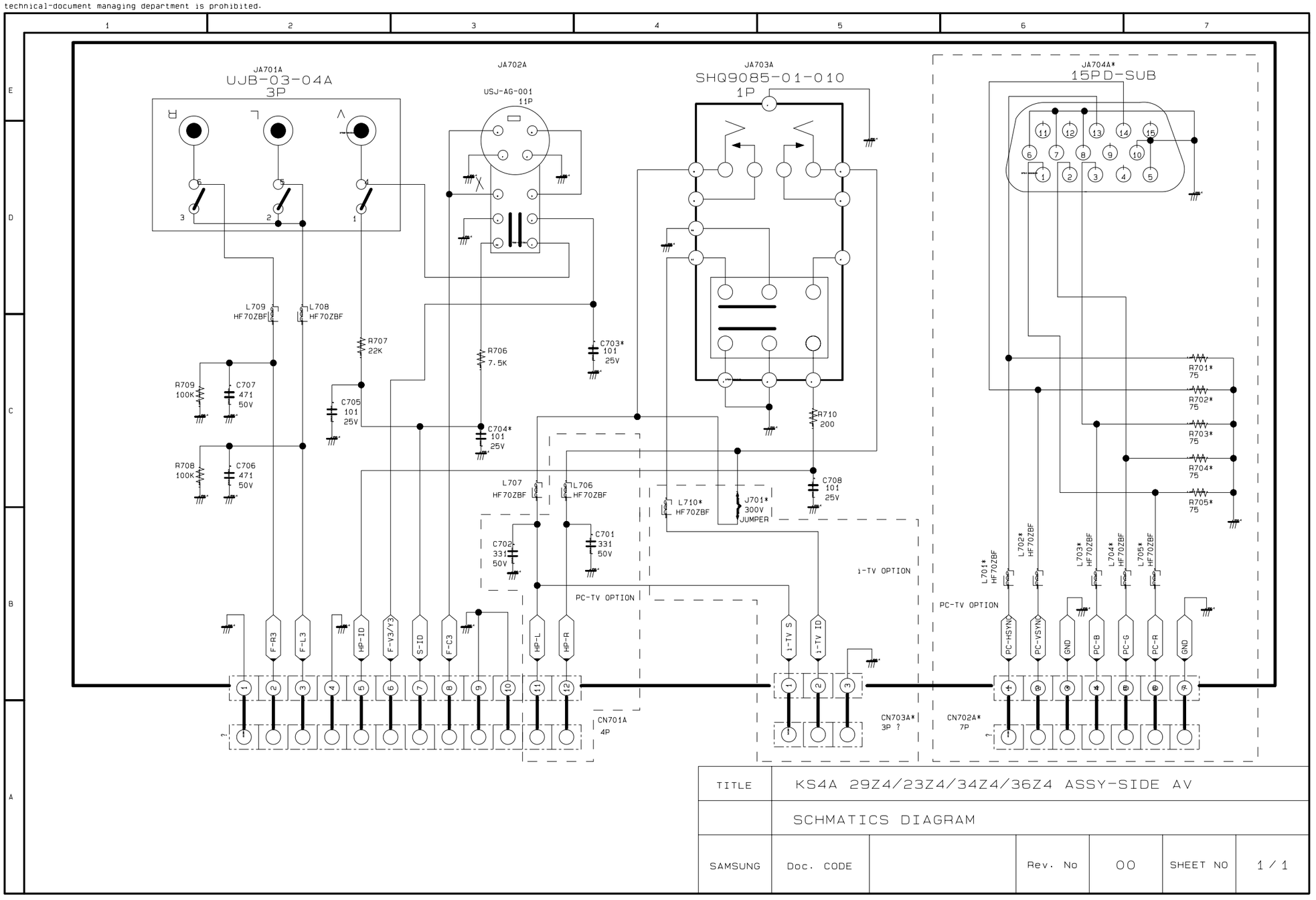

VCC-5V
SR52 47K-F 1/10W(CHIP)
IC14 7533 (DIP)
SC11 104-Z
SL04 10UH
SC17 104-Z
SC16 47UF 16V
SL02 HF70ZBF
SC30 100UF 10V
IC13 1086 (TO-263)
SC32 100UF 10V
SR01 2.2K-J 1/10W(CHIP)
SC39 100UF 10V
SC34 104-Z
SC36 1UF 50V
SC31 104-Z
SC33 104-Z
SL06 HF70ZBF
SC12 47UF 16V
SC13 104-Z 25V(CHIP)
SC10 104-Z
SC09 104-Z
SC01 104-Z
SC02 104-Z
SC03 104-Z
SC04 104-Z
SC05 104-Z
SC06 104-Z
SC07 47UF 16V
SC08 104-Z
SR50 100-J
SR51 100-J
SR01 220-J
SR02 220-J
SC14 470-J
SC15 470-J
SR12 47-J
SR11 47-J
SR10 47-J
SC18 104-Z
SC19 104-Z
SC20 104-Z
SC21 104-Z
SC22 104-Z
SC23 1UF 16V
SC24 104-Z
SC25 104-Z
SC26 104-Z
SC27 104-Z
SC28 104-Z
SC29 104-Z
HREF
YOUT0
YOUT1
YOUT2
YOUT3
YOUT4
YOUT5
YOUT6
YOUT7
COUT0
COUT1
COUT2
COUT3
COUT4
COUT5
COUT6
COUT7
HS2
VS2
FIDS
VS1
HS1
CLK27
Y0
Y1
Y2
Y3
Y4
Y5
Y6
Y7
SCL
SDA
SCL-1
SDA-1
VSS
VDD
V_OUT0
V_OUT1
V_OUT2
V_OUT3
V_OUT4
V_OUT5
V_OUT6
V_OUT7
V_OUT8
V_OUT9
V_OUT10
V_OUT11
V_OUT12
V_OUT13
V_OUT14
V_OUT15
HSO
VSO
ODD
VAVI
HAVI
V_IN0
V_IN1
V_IN2
V_IN3
V_IN4
V_IN5
V_IN6
V_IN7
V_IN8
V_IN9
V_IN10
V_IN11
V_IN12
V_IN13
V_IN14
V_IN15
TEST_CONOUT0
TEST_CONOUT1
TEST_CONOUT2
TEST_CONOUT3
TEST_CONOUT4
TE_RESET
NRESET
PADDR
TEST_SE1
TEST_SI1
TEST_SO1
C0
C1
C2
C3
C4
C5
C6
C7
YD0
YD1
YD2
YD3
YD4
YD5
YD6
YD7
YD8
YD9
YD10
YD11
YD12
YD13
YD14
YD15
SD_DQM
SD_WE
SD_CAS
SD_RAS
CLK54
SD_ADDR11
SD_ADDR10
SD_ADDR9
SD_ADDR8
SD_ADDR7
SD_ADDR6
SD_ADDR5
SD_ADDR4
SD_ADDR3
SD_ADDR2
SD_ADDR1
SD_ADDR0
CD0
CD1
CD2
CD3
CD4
CD5
CD6
CD7
CD8
CD9
CD10
CD11
CD12
CD13
CD14
CD15
MDQM0
MDQM1
MDQM2
MDQM3
MDQM4
MDQM5
MDQM6
MDQM7
MDY0
MDY1
MDY2
MDY3
MDY4
MDY5
MDY6
MDY7
MDY8
MDY9
MDY10
MDY11
MDY12
MDY13
MDY14
MDY15
MDC0
MDC1
MDC2
MDC3
MDC4
MDC5
MDC6
MDC7
MDC8
MDC9
MDC10
MDC11
MDC12
MDC13
MDC14
MDC15
ADDR0
ADDR1
ADDR2
ADDR3
ADDR4
ADDR5
ADDR6
ADDR7
ADDR8
ADDR9
ADDR10
ADDR11
VDD
VSS
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
DQ8
DQ9
DQ10
DQ11
DQ12
DQ13
DQ14
DQ15
VSSQ
VDDQ
LDQM
UDQM
WE
CAS
RAS
CS
CKE
CLK
N.C
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
2/4

8-13 F-BOX(3/4)


IC06
IC05
CN02 16P
CN03 14P
CN04 14P
CHROMA_IN
CVBS/Y_IN
TO.VPC3230
3/4

8-14 F-BOX(4/4)


LCD OPTION
IC09*
74HC123
(SOP)
IC07
CXA2151AQ
(QFP)
YD06* KSC1623-G
YQ07* KSC1623-G
YQ08* KSA1182
YQ03* KSA1182
YQ04* KSA1182
YQ05* KSA1182
YQ02* KSA1182
YQ01* KSA1182
YQ11* KSC1623-G
YQ12* KSC1623-G
YQ10* KSA1182
YD04 RLZ12B 12.03V
YD03 RLZ12B 12.03V
YD02* RLZ5.6B 5.6V
YD01* RLZ9.6B 5.6V
YD07* 1SS314
YD05* 1SS314 30V(CHIP)
YL02* 10uH
TITLE
KS4A 29Z4/32Z4/34Z4/36Z4 FEATURE-BOX
SCHMATICS DIAGRAM
SAMSUNG
Doc. CODE
Rev. No
SHEET NO
4/4

8-15 SIDE A/V

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